Journal of the Indian Chemical Society

Vol. 75, 1998

SUBJECT INDEX

Acetoxyazadirone

Chemical Transformation of 6α-Acetoxyazadirone and Two-dimensional NMR Studies on Tetranortriterpenoids, 804

Acridines

DNA Binding Properties of Some Cationic Acridine Derivatives, 716

Acrylic Diamines

UV-Vis Spectral Changes in the Binding of Acyclic Diamines with a Zinc Porphyrin Tweezer, 725

Adsorption

Adsorptive and Photoelectrochemical Properties of Flavins onto Zinc Oxide Interfaces, 18

Air Pollution

Strategic Considerations for Lead Pollution Control in Kanpur City, 293

Airborne Lead

Strategic Considerations for Lead Pollution Control in Kanpur City, 293

Alcohols

Kinetics and Mechanism of the Oxidation of Secondary Alcohols by Pyridinium Fluorochromate, 42

Quantitative Correlation of the Effect of Changing Alkyl Substitution in Solvent, on Solubility for Alcoholic Solutions, 352

Quantitative Relationship of Diamagnetic Susceptibility with Molecular Connectivity and van der Waals Volume in Alcohols, 373

Aleuritic Acid

FT-IR Spectroscopic Studies on Aleuritic Acid, 326

Simple Synthesis of 1,4-Dioxa-2,3-dioxocyclopentadec-6-ene from Aleuritic Acid, 522

Alkaloids

Study on Oscillatory Behavior and Dynamic Release of Alkaloids of Cultured *Catharanthus roseus* Cells, 474

Raureflexine, an Unusual Bis(indole) Alkaloid from *Rauwolfia reflexa* Teijn and Binn., 695

Alkylarylazoimidazole

Synthesis and Spectroscopic Characterization of Dichloro*N*(1)-alkyl-2-(arylazo)imidazolemercury(II) Complexes, 421

Alkynes

Synthesis and Isonitrile Complexes of Group-VI Metal Carbonyls and Their Use as Mediator in the [2+2+2]-Cyclization of Alkynes, 645

Allyl Alcohols

$Ru^{III}/Os^{VIII}/Ru^{III} + Os^{VIII}$ catalyzed Oxidation of Allyl Alcohol by Periodate in Aqueous Alkaline Medium, 363

Aluminium

Determination of Aluminium in Water through Formation of Fluorescent Dibenzoylmethane-Aluminium Complex and its Structure Elucidation, 78

Studies on Stability Constants of Aluminium(III) and Thorium(IV) Complexes with Methionine [Metal(M)-Methionine System], 256

Extraction Chromatographic Studies of Aluminium(III) with Versatic Acid and Its Analytical Applications, 467

Amines

Thin Layer Chromatography of Primary Aromatic Amines on Zirconium Molybdophosphate – Silica Gel G, 269

Amino Acids

X-Band Electron Paramagnetic Resonance Spectra of Amino Acid-Copper(II) and Amino Acid-Copper(II)-Imidazole Systems, 1

Polarographic Study of Mixed-ligand Complexes of Cadmium(II) with L-Amino Acid and Vitamin B_5, 31

Potentiometric and Visible Spectral Studies of Mixed-ligand Complexes of Nickel(II) containing 1,2-Diaminopropane and some Amino Acids, 95

Acid Aquation of Mixed Chelate Complexes. Aquation of Glycinaot- and α- and β-Alaninato-ethylenebis-biguanidecobalt(III) Complex, 140

Synthesis and Biological Activity of some Novel Amino Acid and Posphazane Derivatives of 7-Hydroxy-4-methylcoumarin, 377

Synthesis and Utilisation of Chiral 3-*N*-Benzyl-*N*-methylaminoperhydropyrrolo[2,1-*c*]oxazin-4-one as a Novel Precursor for the Enantioselective Synthesis of α-Amino Acids and Their *N*-Methyl Derivatives, 634

Aminohydroxypyridine

Mixed-ligand Complexes of Iron-, Cobalt- and Nickel(II) with 2-Amino-3-hydroxypyridine and some Nitrogen Donors, 89

Aminolysis

Aminolysis of 2,3-[Cyclopenten-3′,5′-diyl]-*endo*-N-(2″,4″-dinitrophenoxy)succinimide with Morpholine, Piperidine, Pyrrolidine and Cyclohexylamine in Ethyl Acetate, 49

Ammonium Formate

Catalytic Hydrogen Transfer Reductions Using Ammonium Formate. A Review, 690

Ammonium Hydrogen Phosphate

Nucleation Studies on Supersaturated Aqueous Solutions of Ammonium Dihydrogen Phosphate Doped with Ammonium and Potassium Sulfates, 307

Androstadiendiolone

A One-pot Synthesis of 4,6-Androstadien-6,17β-diol-3-one, 375

Anils

Interactive Free Energy Relationship on the Oxidation of Aromatic Anils by Pyridinium Chlorochromate, 319

Anilines

Kinetics and Mechanism of Oxidation of *para*-Substituted Anilines by Peroxomonosulphate, 368

Antibodies

A New Method to Purify Hapten-Protein Conjugate, 114

Aquation

Acid Aquation of Mixed Chelate Complexes. Aquation of Glycinato- and α- and β-Alaninato-ethylenebisbiguanidecobalt(III) Complexes, 140

Arylazopentanones

A Mechanistic Study on 3-Arylazopentane-2,4-diones and some of its Derivatives at a Hanging Mercury Drop Electrode, 229

Aspartate

Multimetal Multiligand Complexes. Part-I. Equilibrium Study on the Formation and Stability of Mixed Ligand Mixed Metal Complexes of Cobalt-, Nickel-, Copper- and Zinc(II) with Aspartate an Imidazole in Aqueous Solution, 143

Atomic Absorption Spectroscopy

Selective Determination of Inorganic and Organic Mercurials in Water by Coldvapour Atomic Absorption Spectrophotometry, 387

Atractyligenin

A Simple Synthesis of 4-Carboxyatractyligenin from Atractyligenin, 841

Azadirachtins

Azadirachtins – Supermolecules for Insect Control, 655

Benzaldehyde

Kinetics and Mechanism of Oxidation of Benzaldehydes by Quinolinium Chlorochromate, 439

Benzamidosalicylaldimine

Oxoperoxomolybdenum(VI) Complexes derived from *N*-Benzamidosalicylaldimine, 154

Benzhydrols

Friedel-Crafts Reaction with Arylcarbinols : One-pot Synthesis of 10-Methylbenzo[*a*]fluoranthene, 788

Benzoic Acid

Quantitative Correlation of the Effect of Changing Alkyl Substitution in Solvent, on Solubility for Alcoholic Solutions, 352

Benzopyranodicoumarins

Carbon-13 NMR Chemical Shifts of Some Dicoumarols and Benzopyranodicoumarins, 526

Benzopyranone

Synthesis of some 3-Aroyl-4-alkylbenzopyran-1*H*-1-ones and Mechanistic Studies on the Synthesis of 3-Aroyl-4-arylbenzopyran-1*H*-1-ones, 310

Benzothiazolohemicyanine

Studies on Benzothiazolohemicyanine Dyes : Synthesis, Structural Correlation with UV-Absorption Maxima, 108

Benzyl Alcohols

Friedel-Crafts Reaction with Arylcarbinols : One-pot Synthesis of 10-Methylbenzo[*a*]fluoranthene, 788

Benzylbenzohydroxamic Acid

Effect of Cationic and Non-ionic Surfactants upon the Acidic Hydrolysis of *N*-Benzylbenzohydroxamic Acid, 39

Beta-Lactam

Microwave Induced Stereoselective Synthesis and Antibacterial Activity of β-Lactams, 102

Biamperometry

Applicability of Glassy Carbon Electrode in Combination with Platinum for Biamperometric Indication : Determination of 2-Mercaptoethanol using Potassium Iodate in Aqueous Medium, 56

Biguanide

Kinetics of the Anation of *cis*-Diaqua-bis(biguanide)-cobalt(II) by Glutamic Acid in Mixed Ethanol-Water Media, 219

Bilirubin

On the Effect of Visible Light Irradiation on Bilirubin and Bilirubin bound to Serum Albumins : An Insight into the Phototherapy of Neonatal Jaundice, 148

Biosynthesis

Aberrant Biosynthesis of (±)-, (+)- and (–)-12-Bromotetrahydropalmatines, 548

Bis-indole Alkaloid

Raureflexin, an Unusual Bis(indole) Alkaloid from *Rauwolfia reflexa* Teijm and Binn., 695

Bisphenol

Synthesis and Biological Activities of 1,1′-Bis(*p*-substituted-benzoyloxy-substituted-phenyl)cyclohexane, 524

Bisuracilylalkanes

Synthesis of Artificial Receptors having Uracil Base Pairs Linked Through Spacers Containing Ether and Ester Moieties, 580

Book Review

Aquatic Chemistry : Interfacial and Interspecies Process, editors C. P. Huang, C. R. O'Melia and J. J. Morgan, 118

Heterocyclic Chemistry, 2nd. ed., R. K. Bansal, 118

Aqueous Biphasic Separations. Biomolecules to Metal Ions, editors R. D. Rogers and M. A. Eiteman, 119

Fluorine Chemistry – An Introduction, R. C. Paul, K. K. Bhasin and R. S. Battu, 119

Applied Chemistry Theory and Practice, O. P. Virmani and A. K. Narula, 190

Boron

Synthesis of New Boron Compounds : Guanidine Boron Adduct and Hydroxamatoboron, 313

Brassinosteroids

Brassinosteroids, New Class of Phytohormones, 746

Bromamine-B

Kinetics of Oxidation of Caffeine by Bromamine-B in HCl Medium, 15

Bromination

A Kinetic Study on the Electro Chemical Bromination of Fluorescein to Eosin in a Batch Reactor, 165

Bromosuccinimide

Studies on Conductance Behavior of *N*-Bromosuccinimide in varying Compositions of Water-DMF at different Temperatures, 304

Bromotetrahydropalmatine

Aberrant Biosynthesis of (±)-, (+)- and (–)-12-Bromotetrahydropalmatines, 548

Butanol

Catalytic Decomposition of 2-Butanol and Cyclohexanol using Copper Aluminate, 418

Cadmium

Polarographic Study of Mixed-ligand Complexes of Cadmium(II) with L-Amino Acid and Vitamin B_5, 31

Cadmium Sulphate

Thermodynamic Studies of Cadmium Sulphate in Aqueous Glycerol from Electromotive Force Measurements, 398

Caffeine

Kinetics of Oxidation of Caffeine by Bromamine-B in HCl Medium, 15

Calcium Silicate Hydrate

Influence of CaO/SiO_2 Ratio and Storage Conditions of CaO on Silica-Lime-Water System under Hydrothermal Treatment, 357

Calcium Sulphate

Solubility of Calcium Sulphate in the Binary NaCl-H_2O and Ternary NaCl-$MgSO_4$-H_2O Systems, 24

Carbofuran

A New Reagent System for the Analysis of Carbofuran and its Application in Environmental Samples, 181

Carbon Monoxide

Catalytic Oxidation of Carbon Monoxide over Perovskite-type Catalysts $La_{(1+x)/2}Sr_{(1-x)/2}Co_{1-x}Cu_xO_{3-\lambda}$, 300

Carbonation Effect

Influence of CaO/SiO_2 Ratio and Storage Conditions of CaO on Silica-Lime-Water System under Hydrothermal Treatment, 357

Carbonyl Complexes

Synthesis and Isonitriles Complexes of Group-VI Metal Carbonyls and Their Use as Mediator in the [2+2+2]-Cyclization of Alkynes, 645

Carboxyatractyligenin

A Simple Synthesis of 4-Carboxyatractyligenin from Atractyligenin, 841

Carboxylic Phenylhydrazone

Electric and Magnetic Properties of some Anthraquinone *o*-Carboxylic Phenylhydrazone Metal Complexes, 315

Carissa spinarum

Chemical Constituents of *Carissa spinarum* and their Antibacterial Activity, 262

Cassia biflora

Chemical Investigation of *Cassia biflora* Stems, 386

Catalyst

Catalytic Oxidation of Carbon Monoxide over Perovskite-type Catalysts $La_{(1+x)/2}Sr_{(1-x)/2}Co_{1-x}Cu_xO_{3-\lambda}$, 300

Catharanthus roseus

Study on Oscillatory Behavior and Dynamic Release of Alkaloids of Cultured *Catharanthus roseus* Cells, 474

Biotransformation Products of (5*R*)-(+)-Pulegone and (2*S*, 5*R*)-(–)-Menthone Produced by Cultured Cells of *Catharanthus roseus*, 838

Cationic Species

Crown Ether Complexation of Cationic Lanthanide(III) Chloride Species : Crystal and Molecular Structures of $[DyCl_2(H_2O)_2(12\text{-crown-}4)]$ $[SbCl_6].5THF$ (**1**), and $[Er(12\text{-crown-}4)_2(MeCN)]$ $[SbCl_6]_3$ (**2**), 271

Cellulose Nitrate

Studies on Surface Activity of Cellulose Nitrate/Lecithin-DPC Systems, 69

Chalcones

Thermal Studies of Copper(II) Monohydroxychalcones, 349

Chemical Education

Science and Technology Education and Research in India, 185

Chloroform

Sorption of Carbofuran (2,3-Dihydro-2,2-dimethylbenzofuranylmethylcarbamate) by Soil, 354

Cholesterol

Cholesterol Incorporation is Liposomal Membrane : Change is van't Hoff Enthalpy, 405

Chromatography

Reversed Phase Thin Layer Chromatographic Behaviour of some Toxic Metal Ions on Tri-n-butyl Phosphate modified Silica Gel-G Layers in Acetone-Nitric Acid-Water Systems : Quantitative Separation of Lead(II) and Chromium(III) from many Metal Ions, 81

Thin Layer Chromatography of Primary Aromatic Amines on Zirconium Molybdophosphate – Silica Gel G, 269

Extraction Chromatographic Studies of Thallium(III) with High Molecular Weight Carboxylic Acid and its Separation, 330

Planar Chromatography of *d*-Block Metal Ions on Stannic Phosphate Silicate Layers in Buffered EDTA Solutions : Quantitative Separation of Zirconium from Other Metal Ions, 410

Chromatographic Studies of Thorium(IV) and its Extraction from Monazite Sand, 413

Extraction Chromatographic Studies of Aluminium(III) with Versatic Acid and Its Analytical Applications, 467

Chromenopyrimidine

Synthesis of some New Chromeno[2,3-*d*]pyrimidine Derivatives, 379

Chromic Acid

On the Evaluation of the Reaction Rate Constant in Chromic Acid Oxidations, 279

Chromium

Reversed Phase Thin Layer Chromatographic Behaviour of some Toxic Metal Ions on Tri-n-butyl Phosphate modified Silica Gel-G Layers in Acetone-Nitric Acid-Water Systems : Quantitative Separation of Lead(II) and Chromium(III) from many Metal Ions, 81

Mechanisms of the Bridge Cleavage Reactions of Di-μ-hydroxo-, μ-Hydroxo-μ-oxo-, and Di-μ-oxo-bis{bis(*o*-phenanthroline)chromium(III)} Complex Ions in Acid and Base Media, 282

Formation and Dissociation Kinetics of Mono- and Diazidobis(pentane-2,4-dionato)chromium(III) : An Example of Unusually Strong Catalysis, 389

Trivalent Metal Chelates of Macrocycle derived from Dihydrazide and Aromatic Diketone, 493

Clerodane

Diterpenes Derived from Clerodane Skeleton from Some Compositae Plants, 552

Cobalt

Mixed-ligand Complexes of Iron-, Cobalt- and Nickel(II) with 2-Amino-3-hydroxypyridine and some Nitrogen Donors, 89

Paper Electrophoretic Studies on Metal Complexes of Methylcysteine, 91

Potentiometric Studies on Chelation of Cobalt-, Nickel- and Copper(II) with some 5-Aryl-1-phenyl-4-penten-1,3-diones, 98

Acid Aquation of Mixed Chelate Complexes. Aquation of Glycinato- and α- and β-Alaninatoethylenebisbiguanidecobalt(III) Complexes, 140

Multimetal Multiligand Complexes. Part-I. Equilibrium Study on the Formation and Stability of Mixed Ligand Mixed Metal Complexes of Cobalt-, Mickel-, Copper- and Zinc(II) with Aspartate and Imidazole in Aqueous Solution, 143

Stability Constants of Cobalt-, Nickel- and Zinc(II) Complexes of some Tetradentate Imine-phenol Ligands, 160

Extractive-photometric Determination of Cobalt(II) in Steels using 4-(2-Pyridylazo)resorcinol and Xylometazoline Hydrochloride, 176

Kinetics of the Anation of *cis*-Diaqua-bis(biguanide)-cobalt(III) by Glutamic Acid in Mixed Ethanol-Water Media, 219

Synthesis and Characterization of some Metal Ion Complexes with 8-Acetyl-7-hydroxy-4-methyl-coumarin-4-chloro/nitroaniline, 251

Interpretation of the Effect of Methanol on the Aquation of Sodium Monobromoethylenediaminetetraacetatocobaltate(III) in Terms of D_s^{-1}, E_T^N, X_{org}, A_x, B_x and Δg Values, 286

Trivalent Metal Chelates of Macrocycle derived Dihydrazide and Aromatic Diketone, 493

Cochiconoids

Some Recent Developments in Higher-Order Cycloaddition Reactions, 679

Conductance

Heat Treatment of Anodic Oxide Films on Titanium and Niobium, 67

Studies on Conductance Behavior of *N*-Bromosuccinimide in varying Compositions of Water-DMF at different Temperatures, 304

Conducting Polymer

Conducting Polyaniline : Dispersions, Nanoparticles and Nanocomposites, 121

Copper

X-Band Electron Paramagnetic Resonance Spectra of Amino Acid-Copper(II) and Amino Acid-Copper (II)-Imidazole Systems, 1

Potentiometric, Spectral Investigation and Insecticidal Activity of 3-Hydroxy-2-methyl-1,4-naphthoquinone Monoxime Complex of Copper, 4

Organometallic Compounds of Copper(II) derived from some Dicarboxylic Acids, 33

Paper Electrophoretic Studies on Metal Complexes of Methylcysteine, 91

Potentiometric Studies on Chelation of Cobalt-, Nickel- and Copper(II) with some 5-Aryl-1-phenyl-4-penten-1,3-diones, 98

Multimetal Multiligand Complexes. Part-I. Equilibrium Study on the Formation and Stability of Mixed Ligand Mixed Metal Complexes of Cobalt-, Nickel-, Copper- and Zinc(II) with Aspartate and Imidazole in Aqueous Solution, 143

Synthesis and Characterization of some Metal Ion Complexes with 8-Acetyl-7-hydroxy-4-methylcoumarin-4-chloro/nitroaniline, 251

Metal Complexes of Peptide Derivatives. Part-XII. Mixed Ligand Complex Formation of Copper(II) with Salicyloylglycylglycine and some Typical *N*-Donor Ligands, 341

Thermal Studies of Copper(II) Monohydroxychalcones, 349

Synthesis and Characterization of Copper(II) and Nickel(II) Complexes with Schiff Base derived from Aromatic Diamines and Heterocyclic Aldehydes, 518

Copper Aluminate

Catalytic Decomposition of 2-Butanol and Cyclohexanol using Copper Aluminate, 418

Copper-tyrosinate

Thermochemistry of Copper(II)-Tyrosinate in t-Butanol-Water and Glycerol-Water Mixtures at 25°, 35

Coumarins

Synthesis and Biological Activity of some Novel Amino Acid and Phosphazane Derivatives of 7-Hydroxy-4-methylcoumarin, 377

Synthesis of Coumarins in Search of Better Nonpeptidic HIV Protease Inhibitors, 666

Coumarinylacrylates

A New Excellent Diastereoselective Synthesis of β-Coumarinylacrylates Using the Wittig and Wittig-Horner Reagents : Salient Features of Their Stereochemistry and Referred Conformation, 684

Crown Ether

Crown Ether Complexation of Cationic Lanthanide(III) Chloride Species : Crystal and Molecular Structures of $[DyCl_2(H_2O)_2(12\text{-crown-}4)]$ $[SbCl_6].5THF$ (**1**), and $[Er(12\text{-crown-}4)_2$ $(MeCN)]$ $[SbCl_6]_3$ (**2**), 271

Crystal Structure

Crown Ether Complexation of Cationic Lanthanide(III) Chloride Species : Crystal and Moleculer Structures of $[DyCl_2(H_2O)_2$ (12-crown-4)] $[SbCl_6].5THF$ (**1**), and $[Er(12\text{-crown-}4)_2(MeCN)]$ $[SbCl_6]_3$ (**2**), 271

Identification of Erbium(III) Chloride Solvate $ErCl_3(thf)_{3.5}$: Crystal and Molecular Structure of the Ion-pair [*trans*-$ErCl_2(thf)_5$]-[*trans*-$ErCl_4(thf)_2$], 435

Crystal Violet

A New Reagent System for the Spectrophotometric Determination of Selenium in Environmental and Cosmetic Samples, 151

Cyanopyridines

Adducts of 4-t-Butylphenoxo Complexes of Oxovanadium(v) with 2-, 3- and 4-Cyanopyridines, 137

Cyclization

Synthesis and Isonitriles Complexes of Group-VI Metal Carbonyls and Their Use as Mediator in the [2+2+2]-Cyclization of Alkynes, 645

Cycloaddition

Some Recent Developments in Higher-Order Cycloaddition Reaction, 679

Some Transformations of *cis*-Tetrahydrobenzopyran-2-ones : The Precursor Lactones to the Trichothecenes, 705

Cycloawaodorin

Synthesis of First Cyclooligosaccharides of L-Series, Cycloawaodorins, 758

Cyclodextrin

Synthesis of First Cyclooligosaccharides of L-Series, Cycloawaodorins, 758

Cycloheptafuranone

Some Recent Developments in Higher-Order Cycloaddition Reactions, 679

Cyclohexanol

Catalytic Decomposition of 2-Butanol and Cyclohexanol using Copper Aluminate, 418

Cyclohexdienones

Studies on Photoreaction of *endo*-Tricyclo[5.2.2.$0^{2,6}$]-undecadienones in Excited Singlet State, 640

Cyclooligosaccharides
Synthesis of First Cyclooligosaccharides of L-Series, Cycloawaodorins, 758

Cyclopentanes
Synthetic Studies on Necrodols, 628

Cyclorhamnohexose
Synthesis of First Cyclooligosaccharides of L-Series, Cycloawaodorins, 758

Cytochrome P450
Cytochrome P450 Enzymes : Significance, Multiplicity of Isoforms, Substrates, Catalytic and Regulatory Mechanisms, Physiological Functions and Clinical Correlations, 795

***Datura* Withanolides**
Chemistry of *Datura* Withanolides, a Brief Review, 672

Deacetylation
Novel Enzymatic De-esterification Studies on Substituted Polyacetoxybenzamides, 810

Dealumination
Structural Studies on Dealuminated Scolecite, 335

Decarbonylation
Studies on Photoreaction of *endo*-Tricyclo[5.2.2.$0^{2,6}$]-undecadienones in Excited Singlet State, 640

Decomposition
Kinetic and Mechanistic Studies on Nonisothermal Decomposition of Potassium Dioxalatocuprate(II) Dihydrate, 317

Catalytic Decomposition of 2-Butanol and Cyclohexanol using Copper Aluminate, 418

Dehydration
Zeolite Assisted Dehydration of Terpenic Alcohols : Convenient Synthesis of 1,3-Dienes and Oxepane, 688

Desilylation
An Investigation on Desilylation of Alkyl and Phenolic Silyl Ethers Using $FeCl_3$, 565

Diacetylpyridine
Trivalent Metal Chelates of Macrocycle derived from Dihydrazide and Aromatic Diketone, 493

Diaminopropane
Potentiometric and Visible Spectral Studies of Mixed-ligand Complexes of Nickel(II) containing 1,2-Diaminopropane and some Amino Acids, 95

Dibenzoylmethane
Determination of Aluminium in Water through Formation of Fluorescent Dibenzoylmethane-Aluminium Complex and its Structure Elucidation, 78

Dicarboxylic Acids
Organometallic Compounds of Copper(II) derived from some Dicarboxylic Acids, 33

Dicoumarols
Carbon-13 NMR Chemical Shifts of Some Dicoumarols and Benzopyranodicoumarins, 526

Diels-Alder Reaction
Ionic Diels-Alder Reaction : Recent Developments, 709

Dienes
Zeoline Assisted Dehydration of Terpenic Alcohols : Convenient Synthesis of 1,3-Dienes and Oxepane, 688

Diffusion Coefficient
Diffusional Interaction in Germinating Seeds and Pollen Grains : Experimental Determination of Diffusion Coefficients in WH-542 and *Crotalaria juncea* (Pollen) Systems at 318.16 K, 425

Dihydrazones
Synthesis, Structure and Properties of Bimetallic Manganese(II, III) and Dioxouranium(VI) Complexes derived from Bis(2-hydroxy-1-naphthaldehyde)-oxaloyldihydrazone, 345

Dimethylformamide
Ion-Solvent Interaction of Sodium Iodide and Lithium Nitrate in *N*,*N*-Dimethylformamide + Ethanol Mixtures at Various Temperatures, 501

Dioxadioxocyclopentadecene
Simple Synthesis of 1,4-Dioxa-2,3-dioxocyclopentadec-6-ene from Aleuritic Acid, 522

Diterpenes
Diterpenes Derived from Clerodane Skeleton from Some Compositae Plants, 552

Donor-Acceptor Complex
Spectrophotometric Studies of Electron Donor-Acceptor Complexes between Polynitro Compounds and Certain Aromatic Bases at 302 K, 37

Dyes
Studies on Benzothiazolohemicyanine Dyes : Synthesis, Structural Correlation with UV-Absorption Maxima, 108

Dynamic Release
Study on Oscillatory Behavior and Dynamic Release of Alkaloids of Cultured *Catharanthus roseus* Cells, 474

Dysprosium
Crown Ether Complexation of Cationic Lanthanide(III) Chloride Species : Crystal and Molecular Structures of $[DyCl_2(H_2O)_2(12\text{-crown-}4)][SbCl_6].5THF$ (**1**), and $[Er(12\text{-crown-}4)_2(MeCN)][SbCl_6]_3$ (**2**), 271

EDTA
Interpretation of the Effect of Methanol on the Aquation of Sodium Monobromoethylenediaminetetraacetatocobaltate(III) in Terms of D_s^{-1}, E_T^N, X_{org}, A_X, B_X and Δg Values, 286

Electrochemical Cell

Studies on Mild Steel|Molasses|Graphite Electrochemical Cell, 258

Electrochemistry

A Kinetic Study on the Electrochemical Bromination of Fluorescein to Eosin in a Batch Reactor, 165

Electrochemical Studies on Some Sulphonamoylazonitropyrazoles, 447

Elemene

A New Strategy for the α-Vinylation of Ketones : Application to an Enantioselective Synthesis of Sesquiterpene (+)-α-Elemene, 601

Enones

Studies on Photoreaction of *endo*-Tricyclo[5.2.2.$0^{2,6}$]-undecadienones in Excited Singlet State, 640

EPR Spectra

X-Band Electron Paramagnetic Resonance Spectra of Amino Acid-Copper(II) and Amino Acid-Copper(II)-Imidazole Systems, 1

Erbium

Crown Ether Complexation of Cationic Lanthanide(III) Chloride Species : Crystal and Molecular Structures of $[DyCl_2(H_2O)_2$ (12-crown-4)] $[SbCl_6].5THF$ (**1**), and $[Er(12\text{-crown-4})_2(MeCN)]$ $[SbCl_6]_3$ (**2**), 271

Erbium Chloride

Identification of Erbium(III) Chloride Solvate $ErCl_3(thf)_{3.5}$: Crystal and Molecular Structure of the Ion-pair [*trans*-$ErCl_2(thf)_5$]-[*trans*-$ErCl_4(thf)_2$], 435

Erythromotidienone

Structure Elucidation of Erythrosotidienone and Erythromotidienone — Two New Isoquinoline Alkaloids from *Erythrina variegata* Flowers, 833

Erythrotidienone

Structure Elucidation of Erythrosotidienone and Erythromotidienone — Two New Isoquinoline Alkaloids from *Erythrina variegata* Flowers, 833

Ethanol

Ion-Solvent Interaction of Sodium Iodide and Lithium Nitrate in *N*,*N*-Dimethylformamide + Ethanol Mixtures at Various Temperatures, 501

Ethyl acetoacetate

A Reinvestigation of Bicarbonate Induced Oligomerization of Ethyl Acetoacetate : One-pot Biomimetic Synthesis of Dimethylcoumarin, Trimethylcoumarin and Condensed Coumarin Derivatives, 590

Ethylene Dibromide

Colorimetric Determination of Ethylene Dibromide and its Application in Air, Water and Grain Samples, 59

Exciton Coupling

UV-Vis Spectral Changes in the Binding of Acyclic Diamines with a Zinc Porphyrin Tweezer, 725

Fagaridine

Fagaridine Revisited, 831

Ferula jaeschkeana

Isocarotane Esters from *Ferula jaeschkeana*, 536

Flavin mononucleotide

Adsorptive and Photoelectrochemical Properties of Flavins onto Zinc Oxide Interfaces, 18

Flavone

A New Flavone from *Limnophila heterophylla*, 260

Fluorescein

A Kinetic Study on the Electrochemical Bromination of Fluorescein to Eosin in a Batch Reactor, 165

Fluorescence

A New Photoactivated Fluorescence Detection Method for Trichloroethylene, 470

Formation Constant

Metal Ion-Nalidixic Acid Antibiotic Interaction : Formation Constants, Molecular Modelling and pH Metric Studies, 93

Equilibrium Study on the Complex Formation of Europium-, Terbium-, Dysprosium- and Thulium(III) with some Oxyacids, Thioacids and Phenols, 100

Furoguaiacidin

Lignans of *Guaiacum officinale* L. : Photo-sensitized Aerial Oxidation of 2,5-Diaryl-3,4-dimethylfurans and a Novel Method of Sequential Introduction of Alkoxy Functions in Their 3- and 4-Methyl Groups, 776

Furoguaiaoxidin

Lignans of *Guaiacum officinale* L. : Photo-sensitized Aeiral Oxidation of 2,5-Diaryl-3,4-dimethylfurans and a Novel Method of Sequential Introduction of Alkoxy Functions in Their 3- and 4-Methyl Groups, 776

Genetic Polymorphism

Cytochrome P450 Enzymes : Significance, Multiplicity of Isoforms, Substrates, Catalytic and Regulatory Mechanisms, Physiological Functions and Clinical Correlations, 795

Glycerol

Kinetics of Electron Transfer Reaction of Thallic(III) Perchlorate with Glycerol, 423

Glycosylation

Synthesis of First Cyclooligosaccharides of L-Series, Cycloawaodorins, 758

Gold

Spectrophotometric Method for Determination of Palladium(II), Gold (III) and Ruthenium(III) with 8-Methoxy-2-chloroquinoline-3-carbaldehyde thiosemicarbazone, 55

Grains

Diffusional Interaction in Germinating Seeds and Pollen Grains : Experimental Determination of Diffusion Coefficients in WH-542 and *Crotalaria juncea* (Pollen) Systems at 318.16 K, 425

Guaiacum officinale

Lignans of *Guaiacum officinale* L. : Photo-sensitized Aerial Oxidation of 2,5-Diaryl-3,4-dimethylfurans and a Novel Method of Sequential Introduction of Alkoxy Functions in Their 3- and 4-Methyl Groups, 776

Guanidine

Synthesis of New Boron Compounds : Guanidine Boron Adduct and Hydroxamatoboron, 313

Halotrimethylsilane

Synthetic Methods and Reactions, 568

Hepten-Protein Conjugate

A New Method to Purify Hapten-Protein Conjugate, 114

Hexacyanoferrate

Reduced Phenolphthalein as a Redox Indicator for the Titrimetric Determination of Hydrazine and Semicarbazide with Hexacyanoferrate(III), 538

Higher-Order Cycloaddition

Some Recent Developments in Higher-Order Cycloaddition Reactions, 679

Hydrazine

Reduced Phenolphthalein as a Redox Indicator for the Titrimetric Determination of Hydrazine and Semicarbazide with Hexacyanoferrate(III), 538

Hydrazine Sulphate

Indirect Complexometric Determination of Palladium(II) Using Hydrazine Sulfate as Masking Agent, 432

Hydrazinothiazoles

Synthesis of 2-(1,2-Disubstituted)hydrazino-4-methylthiazole-5-carboxylic Acids, 427

Hydrazone

Isovanillin Isonicotinoylhydrazone and its Metal Complexes with Transition Metals, 27

X-Ray Diffraction Studies on 3-Methoxysalicylidene-α-(*N*-phenylcarbonyl)acetocarbohydrazone, 520

Hydrocarbons

Two New Monoterpenoid Hydroxyperoxides from the Liverwort *Jungermannia obovata*, 613

Hydrolysis

Effect of Cationic and Non-ionic Surfactants upon the Acidic Hydrolysis of *N*-Benzylbenzohydroxamic Acid, 39

A Study of Alkaline Hydrolysis of Methyl Nicotinate in Aquo-ethane-1,2-diol Solvent System, 483

Hydroperoxides

Two New Monoterpenoid Hydroxyperoxides from the Liverwort *Jungermannia obovata*, 613

Hydroxamic Acid

A Vibrational Spectroscopic Study of the Vibrations of Hydroxamic Acid and its Derivatives in Solid State, 479

Hydroxyacetophenonebenzoylhydrazone

Extraction Spectrophotometric Determination of Vanadium(V) using 2′-Hydroxyacetophenonebenzoylhydrazone, 486

Hydroxymethyl Methylcarbinols

Stereoselective Synthesis of Chiral γ-Hydroxy-β-methyl Methylcarbinols, 741

Hydroxymethylcoumarin

Synthesis and Biological Activity of some Novel Amino Acid and Phosphazane Derivatives of 7-Hydroxy-4-methylcoumarin, 377

Hydroxymethylnaphthoquinoneoxime

Potentiometric, Spectral Investigation and Insecticidal Activity of 3-Hydroxy-2-methyl-1,4-naphthoquinone Monoxime Complex of Copper, 4

Hydroxythienylchromenone

3-Hydroxy-2-(2-thienyl)-4*H*-chromen-4-one as an Analytical Reagent for Spectrophotometric Determination of Vanadium(V), 514

Imidazole

X-Band Electron Paramagnetic Resonance Spectra of Amino Acid-Copper(II) and Amino Acid-Copper(II)- Imidazole Systems, 1

Multimetal Multiligand Complexes. Part-I. Equilibrium Study on the Formation and Stability of Mixed Ligand Mixed Metal Complexes of Cobalt-, Nickel-, Copper- and Zinc(II) with Aspartate and Imidazole in Aqueous Solution, 143

Imidazopyridines

A Facile [Hydroxy(tosyloxy)iodo]benzene Mediated Synthesis of Substituted Imidazo[1,2-*a*]pyridines, 770

Imine-Phenol

Stability Constants of Cobalt-, Nickel- and Zinc(II) Complexes of some Tetradentate Imine-Phenol Ligands, 160

Iminoimidazolinone

A Convenient Synthesis of 1,4-Diaryl-5-imino-3-imidazolin-2-ones. Part -X, 106

Inclusion Compounds

Synthesis of First Cyclooligosaccharides of L-Series, Cycloawaodorins, 758

Indigofera oblongifolia

5,7,4-Trimethoxy-4-phenylcoumarin from Roots of *Indigofera oblongifolia*, 485

Indoles

Metal Reagents in Organic Reactions. Part-VI. Oxidation of Indoles with Tallium(III) Acetate, 698

Indolizines

Electronic Structure and Spectra of Indolizine and its Aza Derivatives, 455

Analogy between the Syntheses fo Indolizines and Phosphaindolizines, 648

Insecticides

Spectrophotometric Methods for the Determination of Carbaryl, Carbofuran and Baygon in Commercial Formulations, 61

Interaction

DNA Binding Properties of Some Cationic Acridine Derivatives, 716

Ion-Solvent Interaction

Ion-Solvent Interaction of Sodium Iodide and Lithium Nitrate in *N,N*-Dimethylformamide + Ethanol Mixtures at Various Temperatures, 501

Iron

Mixed-ligand Complexes of Iron-, Cobalt- and Nickel(II) with 2-Amino-3-hydroxypyridine and some Nitrogen Donors, 89

Thermal Studies on Iron(II) Complexes with Polypyridine and Dicarboxylic Acid Ligands, 156

Trivalent Metal Chelates of Macrocycle derived Dihydrazide and Aromatic Diketone, 493

Isocarotane

Isocarotane Esters from *Ferula jaeschkeana*, 536

Jungermannia obovata

Two New Monoterpenoid Hydroxyperoxides fron the Liverwort *Jungermannia obovata*, 613

Kinetics

Kinetics of Oxidation of Caffeine by Bromamine-B in HCl Medium, 15

Kinetics and Mechanism of Ruthenium(III)-catalysed Oxidation of Selenium(IV) by Manganese(III), 63

Kinetic Parameters of Thermal Dehydration and Decomposition from Thermoanalytical Curves of Zinc *dl*-Lactate, 162

Kinetics of the Anation of *cis*-Diaqua-bis(biguanide)cobalt(III) by Glutamic Acid in Mixed Ethanol-Water Media, 219

Kinetometrics. Part-I. KINTOB – A Tool Box for Kinetics, 236

On the Evaluation of the Reaction Rate Constant in Chromic Acid Oxidations, 279

Mechanisms of the Bridge Cleavage Reactions of Di-μ-hydroxo-, μ-Hydroxo-μ-oxo-, and Di-μ-oxobis{bis(*o*-phenanthroline)chromium(III)} Complex Ions in Acid and Base Media, 282

Interpretation of the Effect of Methanol on the Aquation of Sodium Monobromoethylenediaminetetraacetatocobaltate(III) in terms of D_s^{-1}, E_T^N, X_{org}, A_x, B_x and Δg Values, 286

Steric and Resonance Effects on the Kinetics of Oxidation of Organic Sulfides by Quinolinium Fluorochromate, 297

Kinetic and Mechanistic Studies on Nonisothermal Decomposition of Potassium Dioxalatocuprate(II) Dihydrate, 317

$Ru^{III}/Os^{VIII}/Ru^{III} + Os^{VIII}$ catalyzed Oxidation of Allyl Alcohol by Periodate in Aqueous Alkaline Medium, 363

Kinetics and Mechanism of Oxidation of *para*-Substituted Anilines by Peroxomonosulphate, 368

Formation and Dissociation Kinetics of Mono- and Diazidobis(pentane-2,4-dionate)chromium(II) : An Example of Unusually Strong Catalysis, 389

Kinetics of Electron Transfer Reaction of Thallic(III) Perchlorate with Glycerol, 423

Kinetics and Mechanism of Oxidation of Benzaldehydes by Quinolinium Chlorochromate, 439

Kinetics and Mechanism of the Oxidation of Secondary Alcohols by Hexamethylenetetramine-Bromine, 784

Kinetometrics

Kinetometrics. Part-I. KINTOB – A Tool Box for Kinetics, 236

Lac Dye

Spectrophotometric Estimation of Lac Dye, 183

Lac-Resin Degradation

Some Aspects of the Chemistry of Lac-Resin, 575

Lanthanides

Equilibrium Study on the Complex Formation of Europium-, Terbium-, Dysprosium- and Thulium(III) with some Oxyacids, Thioacids and Phenols, 100

Lead

Reversed Phase Thin Layer Chromatographic Behaviour of some Toxic Metal Ions on Tri-n-butyl Phosphate modified Silica Gel-G Layers in Acetone-Nitric Acid-Water Systems : Quantitative Separation of Lead(II) and Chromium(III) from many Metal Ions, 81

Reversed-phase Extraction Chromatographic Studies of Lead with High Molecular Weight Carboxylic Acid and its Analytical Applications, 169

Strategic Considerations for Lead Pollution Control in Kanpur City, 293

Letters to the Editor, 117, 540

[Leu]enkephalin

Synthesis of [Leu^5]enkephalin using Fmoc-Amino Acid Chlorides/KOAt, 511

Lime

Influence of CaO/SiO_2 Ratio and Storage Conditions of CaO on Silica-Lime-Water System under Hydrothermal Treatment, 357

Limnophila heterophylla

A New Flavone from *Limnophila heterophylla*, 260

Lipase

Novel Enzymatic De-esterification Studies on Substituted Polyacetoxybenzamides, 810

Lithium Nitrate

Ion-Solvent Interaction of Sodium Iodide and Lithium Nitrate in *N*,*N*-Dimethylformadide + Ethanol Mixtures at Various Temperatures, 501

Lysine

Adsorption Voltammetry Determination of Lysine Traces of its *o*-Chlorobenzaldehyde Derivative, 488

Macrocycle

Synthesis of 5,7,12,14-Tetramethyl-1,4,8,11-tetraazacyclotetradeca-4,7,11,14-tetraene and its Metal Complexes with Chromium-, Nickel-, Cobalt-, and Iron(II) Metal Ions, 84

Magnetic Susceptibility

Quantitative Relationship of Diamagnetic Susceptibility with Molecular Connectivity and van der Waals Volume in Alcohols, 373

Maneb

Polarographic Determination of Zineb and Maneb, 491

Manganese

Trifuluoro(oxalato)manganate(III) Oxidations of Thiosemicarbazide, Semicarbazide and their Derivatives, 11

Trivalent Metal Chelates of Macrocycle derived Dihydrazide and Aromatic Diketone, 493

Synthesis, Structure and Properties of Bimetallic Manganese(II, III) and Dioxouranium(VI) Complexes derived from Bis(2-hydroxy-1-naphthaldehyde)oxaloyldihydrazone, 345

Mappicine

Chemoenzymatic Transformation of the Natural Antitumour Alkaloid 20-*O*-Acetylcamptothecin to Mappicine Ketone and (*S*)-Mappicine, 662

Mappicine Ketone

Chemoenzymatic Transformation of the Natural Antitumour Alkaloid 20-*O*-Acetylcamptothecin to Mappicine Ketone and (*S*)-Mappicine, 662

Marine Natural Products

Some Aspects of Bioactive Marine Natural Products, 191

Mass Spectra

Mass Spectral Fragmentation Patterns of Some Substituted 1,2,4-Triazoles and 1,2,4-Triazolo[3,4-*b*]1,3,4-thiadiazoles, 532

Mass Spectral Fragmentation Patterns of 2-[(5-Aryl-2-furyl)vinyl]-3-arylquinazolin-4-ones, 534

Mass Spectrometry

An Indroduction to Electrospray Ionization and Matrix Assisted Laser Desorption/Ionization Mass Spectrometry : Essential Tools in the Modern Drug Discovery Process, 621

Membrane

Cholesterol Incorporation in Liposomal Membrane : Change in van't Hoff Enthalpy, 405

Studies on Bi-ionic Membrane Potentials, 407

Menthone

Biotransformation Products of (5*R*)-(+)-Pulegone and (2*S*, 5*R*)-(−)-Menthone Produced by Cultured Cells of *Catharanthus roseus*, 838

Mercaptoethanol

Applicability of Glassy Carbon Electrode in Combination with Platinum for Biamperometric Indication : Determination of 2-Mercaptoethanol using Potassiun Iodate in Aqueous Medium, 56

Mercuration

Electron Population Controlled Mercuration of Thioamines, 360

Mercury

Selective Determination of Inorganic and Organic Mercurials in Water by Coldvapour Atomic Absorption Spectrophotometry, 387

Synthesis and Spectroscopic Characterization of Dichloro *N* (1)-alkyl-2-(arylazo)imidazolemercury(II) Complexes, 421

Extraction Chromatographic Studies of Mercury(II) with SRS-100, 516

Metachromasia

Metachromasia Induced in Thiazine Dyes by Small Molecules, 451

Metal-Thio Compounds
Catalytic Hydrogen Waves at Dropping Mercury Electrode (wtih Special Reference to Thio Compounds), 1970-1996, 130

Methionine
Studies on Stability Constants of Aluminium(III) and Thorium(IV) Complexes with Methionine [Metal (M)-Methionine System], 256

Methyl Nicotinate
A Study of Alkaline Hydrolysis of Methyl Nicotinate in Aquo-ethane-1,2-diol Solvent System, 483

Methylbenzofluoranthene
Friedel-Crafts Reaction with Arylcarbinols : One-pot Synthesis of 10-Methylbenzo[*a*]fluoranthene, 788

Methylcysteine
Paper Electrophoretic Studies on Metal Complexes of Methylcysteine, 91

Methylphenylquinolinones
Synthesis of Some New N^1–Substituted-6-methyl-4-phenylquinolin-2(1*H*)-ones, 529

***Mikania* Species**
Terpenoid Chemistry of *Mikania* Species, 559

MNDO Calculation
MNDO Optimized Molecular Geometries of Some Pyrimidine and Purine Derivatives, 506

Molal Volume
Apparent Molal Volumes and Thermodynamic Quantities of Viscous Flow for Urea + Ammonium Sulphate Solutions, 443

Molasses
Studies on Mild Steel|Molasses|Graphite Electrochemical Cell, 258

Molybdenum
Oxomolybdenum(V) and Dioxomolybdenum(VI) Complexes of Schiff Bases derived from Isonicotinic Acid Hydrazide, 7

Oxoperoxomolybdenum(VI) Complexes derived from *N*-Benzamidosalicylaldimine, 154

$Mo(Py)(pph_3)_2Cl_3$: A Triphenylphosphine Complex of Molybdenum(III) and its Reactions, 248

Monoterpene
Synthetic Studies on Necrodols, 628

Monoterpenoids
Two New Monoterpenoid Hydroxyperoxides from the Liverwort *Jungermannia obovata*, 613

Nalidixic Acid
Metal Ion-Nalidixic Acid Antibiotic Interaction : Formation Constants, Molecular Modelling and pH Metric Studies, 93

Naphthalidinepyridine
Spectrophotometric Determination of Nickel(II) after Adsorption of its Complex with 2-(Naphthalidine)pyridine on Polyurethane Foam, 167

Necrodols
Synthetic Studies on Necrodols, 628

Nickel
Novel Mixed-ligand Derivatives of Bis(acetoacetanilido)-, Bis(*o*-acetoacetanisidido)- and Bis(*o*-acetoacetotoluidido)nickel(II) with some Biologically Active 5-Pyrazolones, 29

Mixed-ligand Complexes of Iron-, Cobalt- and Nickel(II) with 2-Amino-3-hydroxypyridine and some Nitrogen Donors, 89

Potentiometric and Visible Spectral Studies of Mixed-ligand Complexes of Nickel(II) containing 1,2-Diaminopropane and some Amino Acids, 95

Potentiometric Studies on Chelation of Cobalt-, Nickel- and Copper(II) with some 5-Aryl-1-phenyl-4-penten-1,3 diones, 98

Multimetal Multiligand Complexes. Part-I. Equilibrium Study on the Formation and Stability of Mixed Ligand Mixed Metal Complexes of Cobalt-, Nickel-, Copper- and Zinc(II) with Aspartate and Imidazole in Aqueous Solution, 143

Stability Constants of Cobalt-, Nickel- and Zinc(II) Complexes of some Tetradentate Imine-phenol Ligands, 160

Spectrophotometric Determination of Nickel(II) after Adsorption of its Complex with 2-(Naphthalidine)pyridine on Polyurethane Foam, 167

Synthesis and Characterization of some Metal Ion Complexes with 8-Acetyl-7-hydroxy-4-methyl-coumarin-4-chloro/nitroaniline, 251

Synthesis and Characterization of Copper(II) and Nickel(II) Complexes with Schiff Base derived from Aromatic Diamines and Heterocyclic Aldehydes, 518

Nickel Boride
Synthetic Methods and Reactions, 568

Niobium Oxide
Heat Treatment of Anodic Oxide Films on Titanium and Niobium, 67

Nitrite
Spectrophotometric Determination of Nitrite in Water, 416

Nitroacenaphthene Oxide
Solvent Effect on Polarographic Reduction of 3-Nitroacenaphthenequinone, 371

Nitroanilines

Determination of *meta*-, *para*- and *ortho*-Nitroanilines using Spectrophotometric and Thermal Gradient Chromatographic Methods, 267

Nitrocholestenone

Characterization and Conformational Studies of a Novel Trinitro Steroid using 2D-NMR, 543

NMR Spectra

Carbon-13 NMR Chemical Shifts of Some Dicoumarols and Benzopyranodicoumarins, 526

Proton NMR Studies of Bioactive Compounds in Aqueous Solution, 734

Unprecedented Concentration Dependent Chemical Shift Variation in ^{1}H NMR Studies : A Problem in Structure Elucidation and the Study of Molecular Recognition, 823

Non-linear Reaction

The Velocity Potential for Schlogl's Model, 321

Nucleation

Nucleation Studies on Supersaturated Aqueous Solutions of Ammonium Dihydrogen Phosphate Doped with Ammonium and Potassium Sulfates, 307

Oligomerization

A Reinvestigation of Bicarbonate Induced Oligomerization of Ethyl Acetoacetate : One-pot Biomimetic Synthesis of Dimethylcoumarin, Trimethylcoumarin and Condensed Coumarin Derivatives, 590

Oligonucleotides

Advances in Functionalization of Polymer supports for Synthesis and Modification of Oligo-nucleotides, 206

Oscillatory Phenomenon

Study of Chemical Oscillation in a Mixed Substrate System of Gallic Acid and Acetone using Cerium(IV) Ions as Catalyst and a Comparative Study of the Catalytic Activity of Cerium(IV) Ions and Ferroin, 73

Study on Oscillatory Behavior and Dynamic Release of Alkaloids of Cultured *Catharanthus roseus* Cells, 474

Osmium

$Ru^{III}/Os^{VIII}/Ru^{III}$ + Os^{VIII} catalyzed Oxidation of Allyl Alcohol by Periodate in Aqueous Alkaline Medium, 363

Oxadiazolethione

Synthesis and *in vitro* Serotonin-3-antagonist of some Newer 1,3,4-Oxadiazole-2-thiones, 53

Oxepane

Zeoline Assisted Dehydration of Terpenic Alcohols : Convenient Synthesis of 1,3-Dienes and Oxepane, 688

Oxidation

Trifluoro(oxalato)manganate(III) Oxidations of Thiosemicarbazide, Semicarbazide and their Derivatives, 11

Kinetics of Oxidation of Caffeine by Bromamine-B in HCl Medium, 15

Kinetics and Mechanism of the Oxidation of Secondary Alcohols by Pyridinium Fluorochromate, 42

Kinetics and Mechanism of Ruthenium(III)-catalysed Oxidation of Selenium(IV) by Manganese(III), 63

On the Evaluation of the Reaction Rate Constant in Chromic Acid Oxidations, 279

Steric and Resonance Effects on the Kinetics of Oxidation of Organic Sulfides by Quinolinium Fluorochromate, 297

Catalytic Oxidation of Carbon Monoxide over Perovskite-type Catalysts $La_{(1+x)/2}Sr_{(1-x)/2}Co_{1-x}Cu_xO_{3-\lambda}$, 300

Interactive Free Energy Relationship on the Oxidation of Aromatic Anils by Pyridinium Chlorochromate, 319

$Ru^{III}/Os^{VIII}/Ru^{III}$ + Os^{VIII} catalyzed Oxidation of Allyl Alcohol by Periodate in Aqueous Alkaline Medium, 363

Kinetics and Mechanism of Oxidation of *para*-Substituted Anilines by Peroxomonosulphate, 368

Kinetics and Mechanism of Oxidation of Benzaldehydes by Quinolinium Chlorochromate, 439

The Preference Profile in Ruthenium Tetroxide Oxidations, 583

Lignans of *Guaiacum officinale* L. : Photo-sensitized Aerial Oxidation of 2,5-Diaryl-3,4-dimethylfurans and a Novel Method of Sequential Introduction of Alkoxy Functions in Their 3- and 4-Methyl Groups, 776

Kinetics and Mechanism of the Oxidation of Secondary Alcohols by Hexamethylenetetramine-Bromine, 784

Oxoperoxomolybdenum

Oxoperoxomolybdenum(VI) Complexes derived from *N*-Benzamidosalicylaldimine, 154

Oxothiadiazolidines

A Novel Route to the Synthesis of 2-Cyclohexylideneamino-5-arylimino-3-oxo-1,2,4-thiadiazolidines, 430

Oxovanadium

Adducts of 4-t-Butylphenoxo Complexes of Oxovanadium(V) with 2-, 3- and 4-Cyanopyridines, 137

Oxyacids

Equilibrium Study on the Complex Formation of Europium-, Terbium-, Dysprosium- and Thulium(III) with some Oxyacids, Thioacids and Phenols, 100

Palladium

Spectrophotometric Method for Determination of Palladium(II), Gold(III) and Ruthenium(III) with 8-Methoxy-2-chloroquinoline-3-carbaldehyde thiosemicarbazone, 55

Complexometric Determination of Palladium(II) using Thiocarbohydrazide as a Masking Reagent, 112

An Extractive Spectrophotometric Determination of Palladium using Tetrabutylammonium Perchlorate, 178

Indirect Complexometric Determination of Palladium(II) using Hydrazine Sulfate as Masking Agent, 432

Partial Molar Volume

Viscosity *B*-Coefficients and Partial Molar Volumes of Known Drugs (as Salts), 223

Partial Molar Volumes and their Temperature Derivatives for Sucrose and Urea in Aqueous Dimethyl Sulphoxide Mixtures, 402

Pentanedione

Formation and Dissociation Kinetics of Mono- and Diazidobis(pentane-2,4-dionato)chromium(III) : An Example of Unusually Strong Catalysis, 389

Peptides

Metal Complexes of Peptide Derivatives. Part-XII. Mixed Ligand Complex Formation of Copper(II) with Salicyloylglycylglycine and some Typical N-Donor Ligands, 341

Periodate

$Ru^{III}/Os^{VIII}/Ru^{III} + Os^{VIII}$ catalyzed Oxidation of Allyl Alcohol by Periodate in Aqueous Alkaline Medium, 363

Pervoskite

Catalytic Oxidation of Carbon Monoxide over Perovskite-type Catalysts $La_{(1+x)/2}Sr_{(1-x)/2}Co_{1-x}Cu_xO_{3-\lambda}$, 300

Phenols

Equilibrium Study on the Complex Formation of Europium-, Terbium-, Dysprosium- and Thulium(III) with some Oxyacids, Thioacids and Phenols, 100

Phosphaindolizines

Analogy between the Syntheses of Indolizines and Phosphaindolizines, 648

Phosphazanes

Synthesis and Biological Activity of some Novel Amino Acid and Posphazane Derivatives of 7-Hydroxy-4-methylcoumarin, 377

Photoelectrochemistry

Adsorptive and Photoelectrochemical Properties of Flavins onto Zinc Oxide Interfaces, 18

Photo-ene Reaction

Some Transformations of *cis*-Tetrahydrobenzopyran-2-ones : The Precurson Lactones to the Trichothecenes, 705

Photoreaction

Studies on Photoreaction of *endo*-Tricyclo[5.2.2.$0^{2,6}$]-undecadienones in Excited Singlet State, 640

Phthalimidoacetaldehyde

Synthesis and Evaluation of Sulphonylhydrazones of Phthalimido Acetaldehyde as Anticancer Agents, 46

Phytohormone

Brassinosteroids, New Class of Phytohormones, 746

Platinum

Thermogravimetric Study of the Non-isothermal Decomposition of Ruthenium(II) and Platinum(IV) Complexes of 4-Amino-3-mercapto-6-methyl-1,2,4-triazin[4*H*]-5-one, 253

Polarography

A Mechanistic Study on 3-Arylazopentane-2,4-diones and some of is Derivatives at a Hanging Mercury Drop Electrode, 229

Solvent Effect on Polarographic Reduction of 3-Nitroacenaphthenequinone, 371

Polarographic Determination of Zineb and Maneb, 491

Polyacetoxybenzamides

Novel Enzymatic De-esterification Studies on Substituted Polyacetoxybenzamides, 810

Polyaniline

Conducting Polyaniline : Dispersions, Nanoparticles and Nanocomposites, 121

Polymer Supports

Advances in Functionalization of Polymer supports for Synthesis and Modification of Oligo-nucleotides, 206

Proflavin

The Demonstration of Spontaneous Self-assembly of Novel Fluorescent Proflavin-Lipids, 598

Potassium Dioxalatocuprate

Kinetic and Mechanistic Studies on Non-isothermal Decomposition of Potassium Dioxalatocuprate(II) Dihydrate, 317

Proflavin-Lipids

The Demonstration of Spontaneous Self-assembly of Novel Fluorescent Proflavin-Lipids, 598

Pulegone

Biotransformation Products of (5*R*)-(+)-Pulegone and (2*S*, 5*R*)-(−)-Menthone Produced by Cultured Cells of *Catharanthus roseus*, 838

Purine

MNDO Optimized Molecular Geometries of Some Pyrimidine and Purine Derivatives, 506

Pyrazolinone

Novel Mixed-ligand Derivatives of Bis(acetoacetanilido)-, Bis(*o*-acetoacetanisidido)- and Bis(*o*-acetoacetotoluidido)nickel(II) with some Biologically Active 5-Pyrazolones, 29

Synthesis of some New Pyrazolin-5-ones, 325

Pyrazolinylfluorene

Reaction of 4-Bromo-2-pyrazolines with Fluorene : Synthesis of 9,9′-Bipyrazolinyl Fluorene, 104

Pyridinium Fluorochromate

Kinetics and Mechanism of the Oxidation of Secondary Alcohols by Prydinium Flurochromate, 42

Pyrimidine

MNDO Optimized Molecular Geometries of Some Pyrimidine and Purine Derivatives, 506

Quaternary Ammonium Salts

Synthesis of Quaternary Salts of Ammonia from Phenols and their Plant Growth Retardant Activity, 381

Quinaldic Acid

Solvent Extraction of Zinc(II) with Quinaldic Acid into Benzyl Alcohol, 174

Quinazolinones

Mass Spectral Fragmentation Patterns of 2-[(5-Aryl-2-furyl)vinyl]-3-arylquinazolin-4-ones, 534

Quinolinones

Synthesis of Some New N^1-Substituted-6-methyl-4-phenylquinolin-2(1*H*)-ones, 529

Randia dumetorum

Occurrence of Triacontanoic Acid Esters and a Coumarin in Root-bark of *Randia dumetorum* Lam. Syn. *Xeromphis spinosa* Thumb., 111

Raureflexine

Raureflexine, an Unusual Bis(indole) Alkaloid from *Rauwolfia reflexa* Teijm and Binn., 695

Rauwolfia reflexa

Raureflexin, an Unusual Bis(indole) Alkaloid from *Rauwolfia reflexa* Teijm and Binn., 695

Reduction

Catalytic Hydrogen Transfer Reduction Using Ammonium Formate. A Review, 690

Review

Advances in Functionalization of Polymer supports for Synthesis and Modification of Oligo-nucleotides, 206

Terpenoid Chemistry of *Mikania* Species, 559

Synthetic Methods and Reactions, 568

Analogy between the Syntheses of Indolizines and Phophaindolizines, 648

Azadirachtins – Supermolecules for Insect Control, 655

Chemistry of *Datura* Withanolides, a Brief Review, 672

Catalytic Hydrogen Transfer Reductions Using Ammonium Formate. A Review, 690

Ionic Diels–Alder Reaction : Recent Developments, 709

Brassinosteroids, New Class of Phytohormones, 746

Cytochrome P450 Enzymes : Significance, Multiplicity of Isoforms, Substrates, Catalytic and Regulatory Mechanisms, Physiological Functions and Clinical Correlations, 795

Riboflavin

Adsorptive and Photoelectrochemical Propertics of Flavins onto Zinc Oxide Interfaces, 18

Ruthenium

Spectrophotometric Method for Determination of Palladium(II), Gold (III) and Ruthenium(III) with 8-Methoxy-2-chloroquinoline-3-carbaldehyde thiosemicarbazine, 55

Thermogravimetric Study of the Non-isothermal Decomposition of Ruthenium(II) and Platinum(IV) Complexes of 4-Amino-3-mercapto-6-methyl-1,2,4-triazin[4*H*]-5-one, 253

$Ru^{III}/Os^{VIII}/Ru^{III} + Os^{VIII}$ catalyzed Oxidation of Allyl Alcohol by Periodate in Aqueous Alkaline Medium, 363

Ruthenium Tetroxide

The Preference Profile in Ruthenium Tetroxide Oxidations, 583

Salicyloylglycylglycine

Metal Complexes of Peptide Derivatives. Part-XII. Mixed Ligand Complex Formation of Copper(II) with Salicyloylglycylglycine and some Typical N-Donor Ligands, 341

Scandium

Radiochromatographic Separation of Scandium(III) with Inorganic Ion Exchanger Zirconium Phosphosilicate, 172

Schiff Base

Oxomolybdenum(V) and Dioxomolybdenum(VI) Complexes of Schiff Bases derived from Isonicotinic Acid Hydrazide, 7

Transition Metal Complexes of 5-[4′-(Nitrophenyl)azo]-salicylaldehyde-3-thiosemicarbazone, 158

Synthesis and Characterization of some Metal Ion Complexes with 8-Acetyl-7-hydroxy-4-methyl-coumarin-4-chloro/nitroaniline, 251

Structural, Thermal and Electrical Studies on Cobalt-, Nickel-, Copper-, Zinc- and Cadmium(II) Complexes, 395

Synthesis and Characterization of Copper(II), Nickel(II), Zinc(II), Palladium(II) and Dioxouranium(VI) Complexes with a Tridentate ONS Donor Schiff Base, 496

Synthesis and Characterization of Copper(II) and Nickel(II) Complexes with Schiff Base derived from Aromatic Diamines and Heterocyclic Aldehydes, 518

Scolecite

Structural Studies on Dealuminated Scolecite, 335

Secondary Alcohols

Kinetics and Mechanism of the Oxidation of Secondary Alcohols by Hexamethylenetetramine-Bromine, 784

Seeds

Diffusional Interaction in Germinating Seeds and Pollen Grains : Experimental Determination of Diffusion Coefficients in WH-542 and *Crotalaria juncea* (Pollen) Systems at 318.16 K, 425

Selenium

Kinetics and Mechanism of Ruthenium(III)-catalysed Oxidation of Selenium(IV) by Manganese(III), 63

A New Reagent System for the Spectrophotometric Determination of Selenium in Environmental and Cosmetic Samples, 151

Semicarbazide

Trifluoro(oxalato)manganate(III) Oxidations of Thiosemicarbazide, Semicarbazide and their Derivatives, 11

Reduced Phenolphthalein as a Redox Indicator for the Titrimetric Determination of Hydrazine and Semicarbazide with Hexacyanoferrate(III), 538

Sequence Selectivity

DNA Binding Properties of Some Cationic Acridine Derivatives, 716

Serum Albumin

On the Effect of Visible Light Irradiation on Bilirubin and Bilirubin bound to Serum Albumins : An Insight into the Phototherapy of Neonatal Jaundice, 148

Sesquichamaenol

Biogenetic-type Synthesis of Sesquichamaenol, 729

Shellac

Simple Synthesis of 1,4-Dioxa-2,3-dioxocyclopentadec-6-ene from Aleuritic Acid, 522

Silyl Ethers

An Investigation on Desilylation of Alkyl and Phenolic Silyl Ethers Using $FeCl_3$, 565

Sodium Iodide

Ion-Solvent Interaction of Sodium Iodide and Lithium Nitrate in *N,N*-Dimethylformamide + Ethanol Mixtures at Various Temperatures, 501

Soil

Sorption of Carbofuran (2,3-Dihydro-2,2-dimethylbenzofuranylmethylcarbamate) by Soil, 354

Solubility

Solubility of Calcium Sulphate in the Binary NaCl-H_2O and Ternary NaCl-$MgSO_4$-H_2O Systems, 24

Quantitative Correlation of the Effect of Changing Alkyl Substitution in Solvent, on Solubility for Alcoholic Solutions, 352

Solvation

Interpretation of the Effect of Methanol on the Aquation of Sodium Monobromoethylenediaminetetraacetatocobaltate(III) in Terms of D_s^{-1}, E_T^N, X_{org}, A_x, B_x and Δg Values, 286

Solvent Effect

Solvent Effect on Polarographic Reduction of 3-Nitroacenaphthenequinone, 371

Soret Band

UV-Vis Spectral Changes in the Binding of Acyclic Diamines with a Zinc Porphyrin Tweezer, 725

Sorption

Sorption of Carbofuran (2,3-Dihydro-2,2-dimethylbenzofuranylmethylcarbamate) by Soil, 354

Stability Constant

Polarographic Study of Mixed-ligand Complexes of Cadmium(II) with L-Amino Acid and Vitamin B_5, 31

Paper Electrophoretic Studies on Metal Complexes of Methylcysteine, 91

Potentiometric Studies on Chelation of Cobalt-, Nickel- and Copper(II) with some 5-Aryl-1-phenyl-4-penten-1,3-diones, 98

Multimetal Multiligand Complexes. Part-I. Equilibrium Study on the Formation and Stability of Mixed Ligand Mixed Metal Complexes of Cobalt-, Nickel-, Copper- and Zinc(II) with Aspartate and Imidazole in Aqueous Solution, 143

Stability Constants of Cobalt-, Nickel- and Zinc(II) Complexes of some Tetradentate Imine-Phenol Ligands, 160

Studies on Stability Constants of Aluminium(III) and Thorium(IV) Complexes with Methionine [Metal (M)-Methionine System], 256

Metal Complexes of Peptide Derivatives. Part-XII. Mixed Ligand Complex Formation of Copper(II) with Salicyloylglycylglycine and some Typical N-Donor Ligands, 341

Stannic Phosphate Silicate

Planar Chromatography of *d*-Block Metal Ions on Stannic Phosphate Silicate Layers in Buffered EDTA Solutions : Quantitative Separation of Zirconium from Other Metal Ions, 410

Steroids

Characterization and Conformational Studies of a Novel Trinitro Steroid using 2D-NMR, 543

Styrylbenzimidazole

Studies on the Preparation of 2-Styrylbenzimidazole, 460

Sucrose

Partial Molar Volumes and their Temperature Derivatives for Sucrose and Urea in Aqueous Dimethyl Sulphoxide Mixtures, 402

Sulfides

Steric and Resonance Effects on the Kinetics of Oxidation of Organic Sulfides by Quinolinium Fluorochromate, 297

Sulfonylamino Acids

Some Novel Organosulfur Amino Acid Derivatives, 323

Sulphonamoylazonitropyrazoles

Electrochemical Studies on Some Sulphonamoylazonitropyrazoles, 447

Sulphonylhydrazone

Synthesis and Evaluation of Sulphonylhydrazones of Phthalimido Acetaldehyde as Anticancer Agents, 46

Surfactants

Studies on Surface Activity of Cellulose Nitrate/Lecithin-DPC Systems, 69

Tantalum

Spectrophotometric Study of the Binary System Tantalum(V)-Solochrom Violet RS and Determination of Tantalum(V), 333

Taxanes

Model Studies Directed Towards the Synthesis of Functionalised Chiral A-Ring Derivatives of Taxanes, 616

Terminalia arjuna

Isolation of Phenolics from Leaves of *Terminalia arjuna*, 328

Terpenoid

Terpenoid Chemistry of *Mikania* Species, 559

Tetrahydrofuran

Identification of Erbium(III) Chloride Solvate $ErCl_3(thf)_{3.5}$: Crystal and Molecular Structure of the Ion-pair [*trans*-$ErCl_2(thf)_5$]-[*trans*-$ErCl_4(thf)_2$], 435

Tetranortriterpenoids

Chemical Transformation of 6α-Acetoxyazadirone and Two-dimensional NMR Studies on Tetranortriterpenoids, 804

Tetraquadipyridinioacetateytterbium

Crystal Structure of Dimeric Tetraquadipyridinioacetateytterbium(III) Perchlorate $[Yb(C_5H_5NCH_2CO_2)_2.4(H_2O)]_2.(ClO_4)_6$, 276

Thallic Perchlorate

Kinetics of Electron Transfer Reaction of Thallic(III) Perchlorate with Glycerol, 423

Thallium

Indirect Complexometric Determination of Thallium using Thiourea as Masking Agent, 265

Extraction Chromatographic Studies of Thallium(III) with High Molecular Weight Carboxylic Acid and its Separation, 330

Thallium Acetate

Metal Reagents in Organic Reactions. Part-VI. Oxidation of Indoles with Tallium(III) Acetate, 698

Thermochemistry

Thermochemistry of Copper(II)-Tyrosinate in t-Butanol-Water and Glycerol-Water Mixtures at 25°, 35

Thermodynamics

Thermodynamic Studies of Cadmium Sulphate in Aqueous Glycerol from Electromotive Force Measurements, 398

Apparent Molal Volumes and Thermodynamic Quantities of Viscous Flow for Urea + Ammonium Sulphate Solutions, 443

Thiazine Dyes

Metachromasia Induced in Thiazine Dyes by Small Molecules, 451

Thio Compounds

Catalytic Hydrogen Waves at Dropping Mercury Electrode (with Special Reference to Thio Compounds), 1970-1996, 130

Thioacids

Equilibrium Study on the Complex Formation of Europium-, Terbium-, Dysprosium- and Thulium(III) with some Oxyacids, Thioacids and Phenols, 100

Thioamines

Electron Population Controlled Mercuration of Thioamines, 360

Thiohydrazones

Structural Aspects of Morpholine-*N*-thiohydrazone Complexes with some Bivalent Metals, 392

Thiosemicarbazide

Trifluoro(oxalato)manganate(II) Oxidations of Thiosemicarbazide, Semicarbazide and their Derivatives, 11

Thiosemicarbazones

Transition Metal Complexes of 5-[4′-(Nitrophenyl)azo]-salicylaldehyde-3-thiosemicarbazone, 158

Thioxoquinazolinone

A Simple Preparation of 1-Methyl-3-aryl-2-thio-2,4(1*H*,3*H*)-quinazolindiones as Potential Antimicrobial Agents, 52

Thorium

Studies on Stability Constants of Aluminium(III) and Thorium(IV) Complexes wtih Methionine [Metal(M)-Methionine System], 256

Chromatographic Studies of Thorium(IV) and its Extraction from Monazite Sand, 413

Titanium Oxide

Heat Treatment of Anodic Oxide Films on Titanium and Niobium, 67

Tosylsulphonamidephenol

Hydrogen Bonding Induced Solid State Supramolecular Assemblies of Selective *O*-Tosyl and *N*-Tosyl Derivatives of 3-Aminophenol, 773

Tosylsulphonyloxyaniline

Hydrogen Bonding Induced Solid State Supramolecular Assemblies of Selective *O*-Tosyl and *N*-Tosyl Derivatives of 3-Aminophenol, 773

Transition Metals

Isovanillin Isonicotinoylhydrazone and its Metal Complexes with Transition Metals, 27

Synthesis of 5,7,12,14-Tetramethyl-1,4,8,11-tetraazacyclotetradeca-4,7,11,14-tetraene and its Metal Complexes with Chromium-, Nickel-, Cobalt- and Iron(II) Metal Ions, 84

2-Hydroxyacetophenoneoxime-Thiourea-Trioxane Resin as a Polymeric Ligand, 86

Metal Ion-Nalidixic Acid Antibiotic Interaction : Formation Constants, Molecular Modelling and pH Metric Studies, 93

Transition Metal Complexes of 5-[4'-(Nitrophenyl)azo]-salicylaldehyde-3-thiosemicarbazone, 158

Interaction of Nickel-, Cobalt-, Zinc- and Lead(II) with Benzothiazole-2-carboxyhydrazides in Solution : Synthesis of their Copper(II) Complexes, 290

Electric and Magnetic Properties of some Anthraquinone *o*-Carboxylic Phenylhydrazone Metal Complexes, 315

Structural Aspects of Morpholine-*N*-thiohydrazone Complexes with some Bivalent Metals, 392

Structural, Thermal and Electrical Studies on Cobalt-, Nickel-, Copper-, Zinc- and Cadmium(II) Complexes, 395

Planar Chromatography of *d*-Block Metal Ions on Stannic Phosphate Silicate Layers in Buffered EDTA Solutions : Quantitative Separation of Zirconium from Other Metal Ions, 410

Synthesis and Characterization of Copper(II), Nickel(II), Zinc(II), Palladium(II) and Dioxouranium(VI) Complexes with a Tridentate ONS Donor Schiff Base, 496

Donor Behaviour of Trithiocarbodiglycolic Acid with Some Bivalent Metal Ions, 499

Triazole

Mass Spectral Fragmentation Patterns of Some Substituted 1,2,4-Triazoles and 1,2,4-Triazolo[3,4-*b*]1,3,4-thiadiazoles, 532

Triazolothiadiazole

Mass Spectral Fragmentation Patterns of Some 4-[5-Aryl-2-furfurylidene]-3-mercapto-5-substituted-1,2,4-triazoles and 6-(5-Aryl-2-furyl)-1,2,4-triazolo[3,4-*b*]-1,3,4-thiadiazoles, 465

Mass Spectral Fragmentation Patterns of Some Substituted 1,2,4-Triazoles and 1,2,4-Triazolo[3,4-*b*]1,3,4-thiadiazoles, 532

Trichloroethylene

A New Photoactivated Fluorescence Detection Method for Trichloroethylene, 470

Trichothecenes

Some Transformations of *cis*-Tetrahydrobenzopyran-2-ones : The Precurson Lactones to the Trichothecenes, 705

Trithiocarbodiglycolic Acid

Donor Behaviour of Trithiocarbodiglycolic Acid with Some Bivalent Metal Ions, 499

Trityl Tetrafluoroborate

Synthetic Methods and Reactions, 568

Tungstomolybdodiarsenate

Preparation of Triheteropoly Oxotungstomolybdodiarsenate(V), 477

Uranium

Oxomolybdenum(V) and Dioxomolybdenum(VI) Complexes of Schiff Bases derived from Isonicotinic Acid Hydrazide, 7

Extractive-spectrophotometric Determination of Uranium with Dibenzyldimethylammonium Chloride, 180

Synthesis, Structure and Properties of Bimetallic Manganese(II, III) and Dioxouranium(VI) Complexes derived from Bis(2-hydroxy-1-naphthaldehyde)-oxaloyldihydrazone, 345

Urea

Partial Molar Volumes and their Temperature Derivatives for Sucrose and Urea in Aqueous Dimethyl Sulphoxide Mixtures, 402

Apparent Molal Volumes and Thermodynamic Quantities of Viscous Flow for Urea + Ammonium Sulphate Solutions, 443

Vanadium

Extraction Spectrophotometric Determination of Vanadium(V) using 2'-Hydroxyacetophenonebenzoylhydrazone, 486

3-Hydroxy-2-(2-thienyl)-4*H*-chromen-4-one as an Analytical Reagent for Spectrophotometric Determination of Vanadium(V), 514

Velocity Potential

The Velocity Potential for Schlogl's Model, 321

Vibrational Spectra

A Vibrational Spectroscopic Study of the Vibrations of Hydroxamic Acid and its Derivatives in Solid State, 479

Vinylation

A New Strategy for the α-Vinylation of Ketones : Application to an Enantioselective Synthesis of Sesquiterpene (+)-α Elemene, 601

Viscosity *B*-Coefficients

Viscosity *B*-Coefficients and Partial Molar Volumes of Known Drugs (as Salts), 223

Vitamin B_5

Polarographic Study of Mixed-ligand Complexes of Cadmium(II) with L-Amino Acid and Vitamin B_5, 31

Voltammetry

Catalytic Hydrogen Waves at Dropping Mercury Electrode (with Special Reference to Thio Compounds), 1970-1996, 130

Adsorption Voltammetry Determination of Lysine Traces of its *o*-Chlorobenzaldehyde Derivative, 488

Water

Spectrophotometric Determination of Nitrite in Water, 416

Withanolides

Chemistry of *Datura* Withanolides, a Brief Review, 672

X-Ray Crystallography

Crystal Structure of Dimeric Tetraquadipyridinioacetateyt-terbium(II) Perchlorate $[Yb(C_5H_5NCH_2CO_2.4(H_2O)]_2.(ClO_4)_6$, 276

X-Ray Diffraction

Structural Studies on Dealuminated Scolecite, 335

X-Ray Diffraction Studies on 3-Methoxysalicylidene-α-(*N*-phenylcarbonyl)acetocarbohydrazone, 520

Ytterbium

Crystal Structure of Dimeric Tetraquadipyridinioacetateytterbium(III) Perchlorate $[Yb(C_5H_5NCH_2CO_2)_2.4(H_2O)]_2.(ClO_4)_6$, 276

Zeolite

Zeolite Assisted Dehydration of Terpenic Alcohols : Convenient Synthesis of 1,3-Dienes and Oxepane, 688

Zinc

Multimetal Multiligand Complexes. Part-I. Equilibrium Study on the Formation and Stability of Mixed Ligand Mixed Metal Complexes of Cobalt-, Nickel-, Copper- and Zinc(II) with Aspartate and Imidazole in Aqueous Solution, 143

Stability Constants of Cobalt-, Nickel- and Zinc(II) Complexes of some Tetradentate Imine-phenol Ligands, 160

Solvent Extraction of Zinc(II) with Quinaldic Acid into Benzyl Alcohol, 174

Zinc Lactate

Kinetic Parameters of Thermal Dehydration and Decomposition from Thermoanalytical Curves of Zinc *dl*-Lactate, 162

Zinc Porphyrin Tweezer

UV-Vis Spectral Changes in the Binding of Acyclic Diamines with a Zinc Porphyrin Tweezer, 725

Zineb

Polarographic Determination of Zineb and Maneb, 491

Zirconium

Planar Chromatography of *d*-Block Metal Ions on Stannic Phosphate Silicate Layers in Buffered EDTA Solutions : Quantitative Separation of Zirconium from Other Metal Ions, 410

Zirconium Phosphosilicate

Radiochromatographic Separation of Scandium(III) with Inorganic Ion Exchanger Zirconium Phosphosilicate, 172

Zizyphus jujuba

A-nor-Triterpenoid from *Zizyphus jujuba*, 384

AUTHOR INDEX

Abdel-Wahb, Z. H., 377
Abdul Jameel, A., 368, 439
Acharyulu, Palle V. R., 601
Adhikari, Syamal, 154, 345
Agarwal, A., 410
Agarwal, S. C., 522
Agarwala, Badri V., 27
Aggarwal, A. L., 293
Aggarwal, Manju B., 4
Agnihotri, N., 486, 514
Agrawal, Archana, 176
Agrawal, Omi, 151
Ahmad, Zafeer, 705
Akberali, P. M., 465, 532, 534
Al-Farhan, K., 506
Al-Resayes, S., 506
Al-Wakeel, E. I., 357
Ali, A., 501
Aneja, Ritu, 795
Anilkumar, G., 679
Anklekar, Kiran Y., 379
Ansari, A. S., 108
Arasu, P. Thillai, 95
Archana Rani, 371
Arzare, Sapana, 423
Assarpoura, Ali, 823
Aswar, A. S., 395
Attri, S. C., 402
Atwal, B. S., 61
Bag, K., 360, 421
Bag, Saswati P., 313
Balasubramanian, D., 598
Balasubramanian, N., 286
Balasubramanian, S., 156
Bandyopadhyay, Arup, 169, 413
Bandyopadhyay, Syamal, 35
Banerjee, R. S., 73
Banerjee, Rakesh K., 52, 106
Banerjee, Rupendranath, 389
Banerjee, S. P., 335
Banerji, Avijit, 698
Banerji, Debasis, 698
Banerji, J., 695
Banerji, J. C., 108
Banerji, Kalyan K., 42, 784
Baniwal, Seema, 84
Bansal, R. K., 648
Barua Pathak, Kabita Bujar, 180
Basha, C. A., 165
Basu, R., 405
Berova, Nina, 725
Bhadani, S. N., 176
Bhakuni, D. S., 191, 548
Bhalekar, Anil A., 279
Bhandange, S. G., 395
Bhardwaj, B., 402
Bhat, J. Ishwara, 304
Bhat, K. Subrahmanya, 112
Bhat, Sujata V., 688
Bhatt, S. S., 137
Bhattacharjee, G., 49
Bhattacharjee, N. C., 317
Bhattacharya, A., 430
Bhattacharya, A. K., 568
Bhattacharya, Sanjoy Kumar, 389
Bhattacharya, Santanu, 716
Bhattacharya, Sudin, 46
Bhattacharyya, Ashoke Kumar, 451
Bhattacharyya, D., 583
Bhobe, R. A., 349
Bhowmik, T., 695
Bisal, Shambhunath, 282
Bisht, Kirpal S., 810
Biswas, Kallolmay, 590, 788
Bohra, Anupama, 784
Borhan, Babak, 725
Bose, Ajay K., 734
Brahma, S. K., 479
Brahmachari, G., 260
Brahmadhayalaselvam, A., 262
Brij Bala, 137
Buchanan, Malcolm S., 613
Burnea, Ion, 333
Campero, A., 279
Capitani, Joseph F., 823
Chakrabarti, Ramaprasad, 590
Chakrabarty (née Bhattacharyya), Manju, 776
Chakraborty, Syamal, 788
Chakraborty, Tushar K., 741
Chakravarty, Biswanath, 140, 282
Chakravortty, Vivekananda, 160
Chandak, Priti, 167
Chandra, M., 162
Chandra, Ramesh, 795
Chandra Sekhar K., 176
Chandra, Sudeshna, 84
Chatterjee, A., 111, 695
Chatterjee, S. K., 341
Chattopadhyay, Gautam, 427
Chattopadhyay, S., 479
Chaudhury, S. C., 137
Chauhan, S. M. S., 328
Chawla, H. Mohindra, 833
Choubey, A. K., 430
Choudhary, Ratan K., 392, 499
Chougale, R. B., 363
Choukimath, K. R., 520
Connolly, Joseph D., 613
Corey, E. J., 841
Das, Biswanath, 354, 662
Das, D., 496
Das, H. K., 178, 180
Das, Joyce V., 181
Das, M., 248
Das, Onkarananda, 467
Das, P. C., 111, 695
Das, Parthasarathi, 634
Das, S., 178
Dasgupta, Archana, 455
Dasgupta, Nanda Kr., 455
Dash, Kailash C., 160
Dass, R., 486, 514
Datta, Shyamal Baran, 455
Dave-Gautam, Mangala, 423
David, M. M., 174
De, Aparna, 526, 666
De, B. B., 496
De, B. R., 360
De, G. S., 219
De, N. K., 360
De, Prabir Kumar, 684
De, S., 405
Deogaonkar, P. B., 349
Deshmukh, M. B., 529
Dhir, Renuka, 425
Dikshitulu, L. S. A., 63
Drew, Michael G. B., 271
Dubey, P. K., 460
Duggal, Reema, 381
Dutta, Lakshmi Narayan, 684
Dutta, Susanta, 46
El-Hemaly, S. A., 357
El-Korashy, S. A., 357
El-Manakhly, Kamel A., 315
El-Nawawy, M. A., 377
El-Sayed, Ragab A., 323
El-Sombati, A. Z., 229
Elango, Kuppannagounder Pitchaimuthu, 297, 319
Errington, W., 435
Fadnis, Anand G., 423
Fu-Li, Zeng, 276
Furuya, Tsutomu, 838
Gajendragad, M. R., 112
Gajghate, D. G., 293
Gang-Qiang, Yin, 276
Gangopadhyay, J., 223
Ganguly, Ashit K., 621

Gaonkar, Shantaram G., 304
Garg, Bhagwan S., 4
Garg, S. N., 536
Ghanim, Abu, 485
Ghatak, Anjan, 628
Ghoneim, M. M., 229
Ghosh, A. K., 219, 371, 695
Ghosh, Kallol K., 39
Ghosh, Keya, 690
Ghosh, P. K., 206
Ghosh, Pradip, 313
Ghosh, S., 219
Ghosh, Subrata, 628
Ghosh, Tamal, 389
Glodeanu, Elena, 333
Gopalakrishnan, Geetha, 655
Gopi, H. N., 511
Gorsi, B. L., 373
Goswami, S. P., 773
Govindachari, T. R., 655
Govindan, K., 37
Grossert, J. S., 460
Grover, P. K., 114
Guchhait, Sankar K., 690
Guo, Shoupeng, 488
Gupta, Anshu, 49
Gupta, K. C., 206
Gupta, M. M., 536
Gupta, Neelima, 648
Gupta, R. C., 114
Gupta, Ram C., 375
Gupta, Seema, 325, 447
Gupta, V. K., 59, 151, 181, 267, 416
Gurumurthy, Rajagopala, 297
Gyana Kumari, C., 290
Hamada, Hiroki, 838
Haridas, V., 598
Hasanein, A. A., 506
Hassan, H. M., 377
Havinale, B. R., 520
Hazra, Braja G., 746
Herz, Werner, 559
Hiremath, (Miss) G. A., 363
Holla, B. Shivarama, 465, 532, 534
Hu, Tsung-Ting, 474
Huang, Zuefei, 725
Hui, Wu, 276
Hussain, A. Jaffar, 262
Hyder, S., 501
Imagawa, Hiroshi, 758
Isvoranu, Marian, 333
Jadhav, V. A., 55
Jaggi, (Mrs.) K., 104
Jain, Alok K., 31
Jain, Rajeev, 325, 447
Jain, Subhash C., 810
Jain, Sudha, 548
Jana, Tamal K., 354
Jayaprakash, Sarva, 741
Jena, Satyaban, 160
Jessy, J. M., 352
Jeyaraj, T., 286
Jha, C. M., 499
Jha, J. K., 499
Jiantai, Ma, 300
Joseph, Abraham, 253
Joseph, Sherly, 93
Joshi, J. D., 100
Joshi, Rashmi, 335
Kakade, P. R., 395
Kalidhar, S. B., 386
Kalra, K. C., 67
Kalwania, G. S., 373
Karchaudhuri, Nilay, 526, 666
Karunakaran, Kulandaivelu, 297, 319
Katoch, Rita, 543
Kaushik, R., 328
Kesari, Ritu, 59, 181, 416
Kessar, S. V., 831
Khader, A. M. A., 11
Khan, Abdul Hakim, 455
Khan, Farid, 31
Khan, H. A., 485
Khanchadani, Ritu, 42
Kidwai, M., 93
Kidwai, Mazaahir, 102
Krishna, Vivek, 552
Krishnankutty, K., 98
Krishnaswami, Ashok, 734
Kulkarni, Manohar V., 379
Kumar, Ajay, 810
Kumar, Arvind, 154, 345
Kumar, Kaushlendra, 102
Kumar, Mukesh, 317
Kumar, P. Praveen, 616
Kumar, Parven, 102
Kumar, Pradeep, 206
Kumar, R., 269
Kumar, Rajesh, 810
Kumar, Ramesh, 460
Kumar, Shekhar, 317
Kumar, Subodh, 580
Kumar, Vinod, 4
Kundu, A. B., 384
Kundu, D., 583
Lahiri, S. C., 223
Lahiri, Sikha, 427
Lakhan, Ram, 52, 106
Lakshminarayana, U., 104
Lal, Ram A., 154, 345
Lodha, Vandana, 485
Lwin, War War, 838
Ma, Chengsong, 488
Mabrouk, E. M., 229
Madhusudanan, K. P., 598
Madhusudhan, P., 662
Mahadevan, C., 307
Mahale, R. G., 395
Mahapatra, A. K., 773
Maiti, Kaustabh K., 698
Maiti, Sukumar, 185
Majee, R. N., 522
Majhi, Asim Kumar, 140
Majhi, S. S., 321
Majumdar, Anadi, 804
Majumder, P. L., 776
Malhotra, K. C., 137
Malik, Ashok Kumar, 491
Mallick, B., 111
Mandal, B. M., 121
Mandal, Kalyan Kumar, 804
Mandal, S., 111
Mandal, Tarun Kumar, 804
Manhas, Maghar S., 734
Manna, T. K., 260
Maruthamuthu, P., 368
Mathew, Biju, 265
Mathur, S. P., 167
Mathuram, V., 262
Maurya, R. C., 29
Mayanna, S. M., 15
Meenarani, 386
Mehta, Goverdhan, 601
Mehta, J. R., 486, 514
Mishra, A. P., 251
Mishra, L. K., 392, 499
Mishra, M. K., 328
Mishra, Neelam, 407
Mishra, Usha, 56
Misra, R., 269
Misra, S., 410
Misra, Smiti, 81
Misra, Swapan Kumar, 526, 666
Misra, T. K., 421
Mitra, Abhijit, 823
Mitra, Alok Kumar, 526, 666
Mohan Kumar, B. V., 11
Moharram, Y. I., 229
Mohiuddin, Rafeeq, 290
Mondal, D. N., 384
Mondal, Sudipta, 788
Monshi, M., 506
Monshi, Mahmoud A. S., 158
Mostafa, N. U., 357
Moyna, Guillermo, 838

Mukherjee, A., 53
Mukherjee, D. N., 371
Mukherjee, G. N., 143, 341
Mukherjee, K. S., 260
Mukherjee, P., 260
Mukherjee, R., 773
Mukherjee, S. N., 310
Mukhopadhyay, Apurba Kumar, 526, 666
Mukhopadhyay, C. C., 219
Mundhe, P. G., 349
Muraleedharan, K. M., 583
Murali Krishna, U., 538
Nag, J. K., 496
Nagaraju, N., 418
Naik, C. G., 729
Nain, A. K., 501
Nair, M. Sivasankaran, 95
Nair, M. L. Hari Kumaran, 7
Nair, Vijay, 679
Naithani, Rajesh, 770
Nakanishi, Koji, 725
Nambiar, C. H. Raghavan, 265
Nandakumar, M. V., 679
Nandibewoor, S. T., 363
Nandy, P., 405
Narayana, B., 112, 253, 265, 432
Narkhede, S. S., 172
Nayan, Ram, 33
Neelakantan, M. A., 95
Nishizawa, Mugio, 645, 758
Olsen, Carl E., 810
Padhy, Arun Ku., 104
Paknikar, Shashikumar K., 729
Pal, A., 78
Pal, Apurba Kr., 455
Pal, M. K., 148
Pal, Mohar L., 154, 345
Pal, Pijus, 590
Pal, S. C., 73
Pal, Sudhir C., 698
Pal, T., 78
Pal, Tarasankar, 470
Pancholi, Hemendra B., 86
Panda, C. S., 104
Pandey, Ganesh, 634
Pandeya, Krishna B., 1
Pareek, R. B., 552
Parkash, S., 328
Parmar, M. L., 402
Parmar, Virinder S., 810
Parsania, P. H., 524
Passey, Sarita, 575
Patel, Mohan M., 86
Patel, Ram N., 1
Patel, V. M., 100
Patra, A., 262
Patra, Amarendra, 804
Patra, S. K., 148
Pattar, R. T., 520
Paul, Dharam, 580
Pillai, M. Sankaranarayana, 95
Pleniceanu, Maria, 333
Poonam, 810
Pore, Vandana S., 746
Prabhakaran, C. P., 7
Pradhan, B., 518
Prakash, G. R., 89
Prakash, Om, 770
Pramanik, Birendra N., 621
Pramanik, S. S., 53
Prameela, P., 130
Prasad, Ashok K., 810
Prasad, Bind Basini, 56
Prasad, K. M., 183
Prasad, Mahendra, 258
Prasad, R. R., 499
Puri, Vanita, 27
Purohit, N. V., 310
Puttaswamy, 15
Radhakrishnan, K. V., 679
Rajendran, I., 522
Rajesh, C., 679
Rajesh, N. P., 307
Rajkotia, K. M., 524
Rama Mohan, K., 387
Ramachandra, B., 432
Ramam, V. Ananta, 236
Ramanamma, C. V., 729
Ramanatham, J., 460
Rana, V. B., 493
Ranganathan, Darshan, 598
Ranganathan, S., 583
Ranu, Brindaban C., 690
Rao, A. L. J., 491
Rao, B. Muralidhara, 265
Rao, D. Eswara, 460
Rao, G. Nageswara, 236
Rao, R. Bhima, 262
Rao, R. Sambasiva, 236
Rao, S. V. V. Satyanarayana, 236
Rastogi, Rachana, 267
Rath, Nibedita, 160
Ravichandran, G., 37
Ray, A. B., 672
Ray, Rita, 698
Ray, Uttam Kumar, 705
Reddy, G. Srinivas, 290
Reddy, M. G. Ram, 290
Reddy, P. Veera, 688
Reddy, T. Jagadeeswar, 616
Rekha Kumari, 398
Robb, Ernest W., 734
Roy, Raja, 598
Roy, S. K., 477
Roy, U. S., 169, 330, 413, 467, 516
Ru-Wen, Deng, 276
Rycroft, David S., 613
Saha, A. V., 248
Saha, Amitabha, 451
Saha, Pallab K., 330
Saha, Pallab Kumar, 516
Sahu, H. K., 143
Samajdar, Susanta, 628
Sanghi, Rashmi, 709
Santhi Sree, T. A. S. S., 538
Sanyal, Utpal, 46
Sar, Santosh K., 39
Sarala Devi, Ch., 290
Saraswat, (Miss) Renu, 493
Saraswathi, K., 130
Saravanan, Parthasarathy, 565
Sarkar, Arunkanti, 690
Sarkar, P. C., 183, 326
Sarkar, Shyamal K., 35
Sastry, C. Bhaskara, 63
Satpathy, (Ms.) Minati, 518
Sau, T., 78
Schott, A. Ian, 838
Seaton, Pamela J., 823
Sen, S., 248
Sen (née Mazumdar), Somdutta, 575
Seshaiah, K., 387
Seth, Rakesh K., 4
Shahi, V. K., 69
Shang-Xiang, Gu, 276
Sharma, M. L., 381
Sharma, Mukesh, 373
Sharma, Neeraj, 137
Sharma, Pradeep K., 42, 784
Sharma, R. P., 568
Sharma, Rakesh K., 4
Sharma, Rakesh Kumar, 93
Sharma, S. C., 81
Sharma, S. D., 81, 410
Sharma, Shiv K., 833
Shashi Kant, 398
Shaw, Arun, 590
Shedid, S. A. M., 377
Shelar, M. A., 529
Shen, Dazhong, 488
Sherigara, B. S., 11
Sherwood, D., 24
Shi, Chun-Mei, 474
Shivananda, M. K., 465, 532, 534
Shivhare, P., 59
Shrivastava, A. K., 183, 326
Sindhu, R. S., 89
Singh, A. K., 49, 84

Singh, Ashok K., 841
Singh, Ashoke Kumar, 282
Singh, D. K., 269
Singh, Harjit, 580
Singh, K. C., 67
Singh, K. M., 371
Singh, Kaman, 258
Singh, Kehar, 69, 407
Singh, Mamta, 33
Singh, Mohinder, 67
Singh, Pahup, 552
Singh, R., 430
Singh, Satwinder P., 443
Singh, Shio K., 375
Singh, Shiv P., 770
Singh, Vinod K., 565
Singh, Vishwakarma, 640
Singhal, Sumeet, 167
Sinha, C., 360, 421, 496
Sinha, P. K., 477
Sinha, L. N., 483
Sireesha, B., 290
Sood, M. L., 425
Spinu, Cezar, 333
Spry, Marcus P., 271
Sridharan, R., 543
Srikrishna, A., 616
Srinivas, V., 598
Srinivasan, Vijayasri, 418
Srivastava, Apurva K., 114
Srivastava, P. K., 321
Subramanian, G. B. V., 575
Sugihara, Takumichi, 645
Sujatha, K., 37
Shukla, B. N., 52
Sunita, G., 151
Sur, B., 313
Sur, Pratima, 313
Surana, Anushka, 648
Suresh Babu, V. V., 511
Susarla, V. R. K. S., 24
Sushil Kumar, 536
Talapatra, Bani, 590, 788
Talapatra, Sunil Kumar, 590, 788
Talwar, K. K., 381
Tanaka, Toshinori, 838
Tewari, Brij Bhushan, 91, 256
Tewari, Madhu, 176
Thakre, Rekha, 293
Thakur, D. P., 61
Thakur, H. K., 61
Thippeswamy, Devasamudram, 741
Thomas, Beena, 640
Thomas, Mini, 716
Timmanagoudar, P. L., 363
Tiwari, A. K., 407
Tiwari, H. N., 392
Trivedi, Girish K., 543
Tulasigeri, V. G., 520
Turel, Z. R., 172, 174
Vaish, Narendra K., 598
Vankar, Padma S., 709
Vankar, Yashwant D., 709
Varma, R. B. S., 258
Vasudevan, D., 165
Venkataiah, B., 662
Venkateswaran, R. V., 705
Venugopalan, P., 98
Verma, B. C., 61
Verma, B. P., 162
Verma, Lata, 162
Verma, R., 29
Verma, R. K., 162, 317
Vincent, M., 95
Vo-Dinh, T., 78, 470
Wang, Lizeng, 488
Wiederkehr, Nadir Ana, 18
Willey, G. R., 271, 435
Williams, Howard J., 838
Woodman, T. J., 271, 435
Xuyuan, Li, 300
Yadav, O. P., 443
Yadav, S. N., 392
Yamada, Mamiko, 645
Yamuna, K., 130
Yang, Yu-Min, 474
Yuan, Ying-Jin, 474
Zameela, M., 63
Zhang, Xiaoli, 488
Ziping, Zhang, 300